

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-25. (canceled)

26. (new) An isolated polynucleotide comprising:

(a) a nucleotide sequence encoding a polypeptide having diacylglycerol acyltransferase activity, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:16 have at least 80% sequence identity, based on the Clustal alignment method with pairwise alignment default parameters of KTUPLE=1, GAP PENALTY=3, WINDOW=5 and DIAGONALS SAVED=5, or

(b) the full-length complement of the nucleotide sequence of (a).

27. (new) The polynucleotide of claim 26, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:16 have at least 85% sequence identity, based on the Clustal alignment method with the pairwise alignment default parameters.

28. (new) The polynucleotide of claim 26, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:16 have at least 90% sequence identity, based on the Clustal alignment method with the pairwise alignment default parameters.

29. (new) The polynucleotide of claim 26, wherein the amino acid sequence of the polypeptide and the amino acid sequence of SEQ ID NO:16 have at least 95% sequence identity, based on the Clustal alignment method with the pairwise alignment default parameters.

30. (new) The polynucleotide of claim 26, wherein the nucleotide sequence comprises the nucleotide sequence of SEQ ID NO:15.

31. (new) The polynucleotide of claim 26, wherein the amino acid sequence of the polypeptide comprises the amino acid sequence of SEQ ID NO:16.

32. (new) A vector comprising the polynucleotide of claim 26.

33. (new) A recombinant DNA construct comprising the polynucleotide of claim 26 operably linked to at least one regulatory sequence.

34. (new) A method for transforming a cell comprising transforming a cell with the polynucleotide of claim 26.

35. (new) A cell comprising the recombinant DNA construct of claim 33, wherein the cell is selected from the group consisting of a bacterial cell, a yeast cell and a plant cell.

36. (new) A virus comprising the recombinant DNA construct of claim 33.

37. (new) A method for producing a transgenic plant comprising transforming a plant cell with the polynucleotide of claim 26 and regenerating a transgenic plant from the transformed plant cell.

38. (new) A plant comprising the recombinant DNA construct of claim 33.

39. (new) A seed comprising the recombinant DNA construct of claim 33.

40. (new) A method for isolating a polypeptide encoded by the recombinant DNA construct of claim 33 comprising:

- (a) transforming a cell with the recombinant DNA construct of Claim 33;
- (b) growing the transformed cell of step (a) under conditions suitable for expression of the recombinant DNA construct; and
- (c) isolating the polypeptide from the transformed cell of step (b).